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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/922,307	08/01/2001	Eugene P. Rivers JR.	82210	7952	
7590 01/28/2004			EXAM	EXAMINER	
Naval Surface Warfare Center			SUKMAN, GABRIEL S		
Office of Counsel (Patents) 17320 Dahlgren Road, Code XDC1 Dahlgren, VA 22448-5100			ART UNIT	PAPER NUMBER	
			3641		
			DATE MAILED: 01/28/2004	DATE MAILED: 01/28/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

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<u> </u>		Application No.	Applicant(s)
Office Action	Summon	09/922,307	RIVERS, EUGENE P.
Office Action Summary		Examiner	Art Unit
The MAIL INC DATE		Gabriel S. Sukman	3641
Period for Reply			h the correspondence address
THE MAILING DATE OF - Extensions of time may be available after SIX (6) MONTHS from the maximum of the period for reply specified about 16 NO period for reply is specified: - Failure to reply within the set or expenses.	THIS COMMUNICATION. Ile under the provisions of 37 CFR 1.1 ailing date of this communication. It is less than thirty (30) days, a replatory, the maximum statutory period at tended period for reply will, by statute ter than three months after the mailing.	Y IS SET TO EXPIRE 3 MC (36(a). In no event, however, may a re by within the statutory minimum of thirty will apply and will expire SIX (6) MONT e, cause the application to become ABA g date of this communication, even if tire	ply be timely filed (30) days will be considered timely. (HS from the mailing date of this communication. ANDONED (35 U.S.C. & 133)
1) Responsive to com	nunication(s) filed on <u>01 A</u>	ugust 2001.	
2a) This action is FINAL	2b)⊠ This	action is non-final.	
		nce except for formal matte Ex parte Quayle, 1935 C.D.	ers, prosecution as to the merits is 11, 453 O.G. 213.
Disposition of Claims			
5) Claim(s) is/a 6) Claim(s) <u>1,5-8,11,12</u>	im(s) is/are withdra re allowed. 2,16-19,22-27 and 30 is/ard 3-15,20,21,28 and 29 is/ard	wn from consideration. e rejected. e objected to.	
Application Papers	•		
9) ☐ The specification is o	bjected to by the Examine	er.	
10)⊠ The drawing(s) filed	on <u>01 August 2001</u> is/are:	a)⊠ accepted or b)⊡ obj	ected to by the Examiner.
Applicant may not req	uest that any objection to the	drawing(s) be held in abeyand	e. See 37 CFR 1.85(a).
		•	s) is objected to. See 37 CFR 1.121(d).
	•	kaminer. Note the attached	Office Action or form PTO-152.
Priority under 35 U.S.C. §§ 1			
2. Certified copie 3. Copies of the application from the application from the application from the see the attached detained as specific refere the application of the translation of th	c) None of: es of the priority document es of the priority document certified copies of the prio om the International Bureau ailed Office action for a list hade of a claim for domesti nce was included in the first of the foreign language pro hade of a claim for domesti	s have been received. s have been received in Aprity documents have been ru (PCT Rule 17.2(a)). of the certified copies not ruc priority under 35 U.S.C. § st sentence of the specification has been priority under 35 U.S.C. §	oplication No received in this National Stage eceived. § 119(e) (to a provisional application) tion or in an Application Data Sheet.
Attachment(s)			
Notice of References Cited (PT 2) Notice of Draftsperson's Patent	Drawing Review (PTO-948)	5) 🔲 Notice of Info	ımmary (PTO-413) Paper No(s) ormal Patent Application (PTO-152)
Information Disclosure Statement	nt(s) (PTO-1449) Paper No(s) _	6)	

DETAILED ACTION

Claim Objections

Claim 4 is objected to because of the following informalities: it appears that the word --comprising-- is missing in line one of the claim. Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 11, 22, and 30 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 11, 22, and 30 each recite the limitation "second data link" in line 2 of the claims. There is insufficient antecedent basis for this limitation in the claims.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 23, 25, 26, 27, and 30 are rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent No. 6,289,817 B1 to Quebral et al. (hereinafter Quebral).

Quebral discloses all of the limitations of claim 3. Quebral teaches a payload dispenser that includes a computer having at least one input and at least one output (delivery processor, 30), a magazine holding a plurality of tubes with actuatable capsules (see col. 3, lines 25-31), and a controller as claimed (programmed logic controller, 24).

Quebral discloses all of the limitations of claim 25 as per the discussion below regarding claim 6.

Quebral discloses all of the limitations of claim 26 as per the discussion below regarding claim 7.

Quebral discloses all of the limitations of claim 27 as per the discussion below regarding claim 8.

Quebral discloses all of the limitations of claim 30 as per the discussion below regarding claim 11.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

⁽a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 1, 5-8, 11, 12, 16-19, 22, and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Quebral in view of U.S. Patent No. 4,938,115 to von Maydell.

Quebral clearly discloses all of the limitations of claim 1 except for explicitly stating that the dispensing system is used in an unmanned aerial vehicle with an autopilot. Quebral discloses a payload delivery system that includes a receiver (36), a transmitter (44), and a payload dispenser that includes a computer having at least one input and at least one output (delivery processor, 30), a magazine holding a plurality of tubes with actuatable capsules (see col. 3, lines 25-31), and a controller as claimed (programmed logic controller, 24). The disclosure of Quebral is relatively narrow in that it may reasonably be assumed that the system is for use in a UAV since the payload delivery is not taught to be controlled by a pilot of the aircraft, but rather an operator at some remote location, but nonetheless, the teaching of the UAV containing an autopilot is not disclosed by Quebral. Von Maydell, on the other hand, does disclose a UAV that includes an autopilot and is configured for dropping objects or weapons from its bomb bay. It would therefore be obvious to one having ordinary skill in the art at the time the invention was made to install the sophisticated remotely controlled payload delivery system of Quebral in the unmanned aerial vehicle of von Maydell since the system of Quebral is disclosed as being remotely controlled and the remotely controlled vehicle of von Maydell would provide a suitable and obvious carrier for the system of Quebral.

The limitations of claim 5 are taught by the modified invention of Quebral in view of von Maydell since the carrier of von Maydell is designed to mount the dispensing device in its bomb bay with an opening.

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The limitations of claim 6 are taught by the modified invention of Quebral in view of von Maydell since Quebral teaches the use of a breech plate (22), which necessarily includes an appropriate wire harness.

The limitations of claims 7 and 8 are clearly taught by the modified invention of Quebral in view of von Maydell as per the disclosure of Quebral in col. 3, lines 15 through 39.

The limitations of claim 11 are taught by the modified invention of Quebral in view of von Maydell since the delivery processor is interposed between the computer and the receiver and receives signals from the receiver and provides them to an input port of the computer.

The method of claim 12 is readily apparent from the modified invention of Quebral in view of von Maydell since the only differences between the method steps and the apparatus elements are that such elements are "provided." It is apparent that if the elements of the apparatus claims are taught, then each of the elements are "provided."

The limitations of claim 16 are taught by the modified invention of Quebral in view of von Maydell according to the discussions above regarding claims 12 and 5.

The limitations of claim 17 are taught by the modified invention of Quebral in view of von Maydell according to the discussions above regarding claims 12 and 6.

The limitations of claim 18 are taught by the modified invention of Quebral in view of von Maydell according to the discussions above regarding claims 12 and 7.

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The limitations of claim 19 are taught by the modified invention of Quebral in view of von Maydell according to the discussions above regarding claims 12 and 8.

The limitations of claim 22 are taught by the modified invention of Quebral in view of von Maydell according to the discussions above regarding claims 12 and 11.

The limitations of claim 24 are taught by the modified invention of Quebral in view of von Maydell according to the discussions above regarding claims 12 and 23.

Allowable Subject Matter

Claims 2-4, 9, 10, 13-15, 20, 21, 28, and 29 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: the prior art or record does not disclose or suggest the combination that would teach a dispensing system as claimed that includes a video camera on the front of the vehicle that provides signals that are routed to the autopilot, or the system including a differential GPS receiver that provides signals to an input port of the computer, or a system that includes a data link that receives atmospheric data and sends the signals to an input port of the computer.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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U.S. Patent No. 5,866,838 to Mayersak

U.S. Patent No. 4,494,437 to von Maydell

U.S. Patent No. 4,194,708 to Tracy et al.

U.S. Patent No. 3,547,000 to Haberkorn et al.

UK Patent Application GB 2 174 177 A to von Maydell

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gabriel S. Sukman whose telephone number is (703) 308-8508. The examiner can normally be reached on M-F, 8:30-6:00, every other Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael J. Carone can be reached on (703) 306-4198. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9326.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 306-4180.

gss

SUPERVISORY PATENT EXAMINER